

2. (Amended) The method as claimed in claim 1, wherein n is equal to 256, n_1 is equal to 16, and n_2 is equal to 16.

3. (Amended) The method as claimed in claim 1, further comprising forming the signal sequence $K(i)$ by modulating the second signal sequence $K_2(k)$ as follows:

$$K(i) = K_2(i \bmod n_2) * K_1(i \div n_2).$$

4. (Amended) The method as claimed in claim 1, wherein the signal sequence $K(i)$ is contained in a received signal sequence $E(1)$ and is determined in the mobile station by establishing a correlation sums S of the signal sequence $K(i)$ with corresponding sections of the received signal sequence $E(1)$, a partial correlation sum sequence $TS(z)$ of the signal sequence element $K_2(k)$ being determined using corresponding parts of the received signal sequence $E(1)$, and n_1 elements of the partial correlation sum sequence $TS(z)$ being selected in order to calculate the correlation sum S and being multiplied by the signal sequence element $K_1(j)$.

5. (Amended) The method as claimed in claim 4, further comprising selecting n_1 in each of n_2 -th elements of the partial correlation sum sequence $TS(z)$ in order to calculate the correlation sum S .

6. (Amended) The method as claimed in claim 1, wherein, the signal sequence $K(i)$ is contained in a received signal sequence $E(1)$ and is determined in the mobile station by establishing a correlation sums S of the signal sequence $K(i)$ with corresponding sections of the received signal sequence $E(1)$, and

wherein a partial correlation sum sequence $TS(z)$ of the signal sequence $K_1(j)$ is determined using selected elements of the received signal sequence $E(1)$, and n_2 elements of the partial correlation sum sequence are multiplied by the signal sequence element $K_2(k)$ in order to calculate the correlation sum S .

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7. (Amended) The method as claimed in claim 6, further comprising selecting n_1 in each of n_2 -th elements of the received signal sequence $E(1)$ in order to calculate a partial correlation sum TS.

8. (Amended) The method as claimed in claim 4, further comprising storing partial correlation sums TS and using the partial correlation sums in order to determine a further correlation sum S.- -
